

Garlanda, Tiziano.
BEHAVIOR OF RUBBERS IN A MARINE ENVIRON-
MENT. 26p (1 fig omitted) 6 refs
Order from SLA \$2.60

TT-64-16572

Trans. of [La] Chimica e [L']Industria (Italy) 1961,
v. 43, no. 8, p. 885-891.

(Materials--Rubber, TT, v. 12, no. 4)

TT-64-16572

I. Garlanda, T.

Office of Technical Services

62-12296

Natta, G., Pasquon, I., and Giuffrè, L.
MECHANISM OF THE REGULATION OF THE MO-
LECULAR WEIGHT OF ISOTACTIC POLYPROPYL-
ENE WITH ZINC ALKYLs. [1961] 2300 words, 16 ref.
Order from CTS (Chem) \$9.20 CTS(Chem)-236
subsequent copies \$1.50/ea

Trans. of [1a] Chimica e [1] Industria (Italy) 1961,
v. 43, no. 8, p. 871-874.

DESCRIPTORS: *Propenes, *Polymers, Molecular
weight, Zinc, Alkyl radicals, Polymerization,
Titanium compounds, Chlorides, Ethyl radicals,
Aluminum, Catalysts, Catalysis.

(Chemistry--Organic, TT, v. 7, no. 7)

- I. Natta, G.
- II. Pasquon, I.
- III. Giuffrè, L.
- IV. CTS (Chem)-236
- V. Chemical Translating Serv-
ice, Palo Alto, Calif.

Office of Technical Services

Natta, G., Pasquon, I., and Giuffrè, L.
MECHANISM OF THE REGULATION OF MOLECULAR
WEIGHTS OF ISOTACTIC POLYPROPYLENE BY VINYL
ALCOHOLS. [1961] [12]p.
Order from: ILA \$11.60 63-10500

Trans. of Chimica e Industria (Italy) 1961 v. 43
[no. 3] p. 871-874.
Another trans. is available from CTS (Chem) \$9.20
subsequent copies \$1.50/ea as CTS(Chem)-236
[1961] 2300 words.

DESCRIPTORS: *Polyethylene plastics, *Propenes,
Polymerization, Catalysts, Molecular weight, Control,
*Ziegler catalysts, *Allyl radicals, Ethyl radicals,
*Zinc compounds, Aluminum compounds, Titanium
compounds.

When polymerizing propylene to isotactic polymers,
with the aid of a catalytic system prepared from violet
(Materials--Plastics, TT, v. 10, no. 1) (over)

63-10500

I. Natta, G.
II. Pasquon, I.
III. Giuffrè, L.

Office of Technical Services

62-12293

Agamennone, Marco.
PROCESS FOR THE PRODUCTION OF ACROLEIN
FROM PROPYLENE AND OXYGEN. Presented at
"Days of Chemistry" at the Fair of Milan (no. 39)
18-20 Apr 61. [1961] 3900 words, 12 refs.
Order from CTS(Chem) \$15.60 CTS(Chem)-248
subsequent copies \$2.60/ca.

Trans. of [la] Chimica e [li] Industria (Italy) 1961,
v. 43, no. 8, p. 875-880.

DESCRIPTORS: *Acroleins, *Propenes, Oxygen,
Processing, Production, Chemical industry.

(Engineering--Chemical, TT, v. 7, no. 10)

- I. Agamennone, M.
- II. CTS(Chem)-248
- III. Chemical Translating
Service, Palo Alto, Calif.
- IV. Title: Days...

Office of Technical Services

Norcross, G.
THE MANUFACTURE OF ALCOHOLS BY CAR-
BONYLATION. [1961] 8p.
Order from ATS \$12.20 ATS-90N561

Trans. of [la] Chim[ica] e [l']nd[ustria] (Italy) 1961,
v. 43, no. 8, p. 880-884.

DESCRIPTORS: *Alcohols, Production.

(Chemistry--Organic, TT, v. 7, no. 3)

62-12228

- I. Title: Carbonylation
- I. Norcross, G.
- II. ATS-90N561
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATC/1629-37

Office of Technical Services

62-12294

Crespi, Giovanni and Flisi, Umberto.
SOME THERMODYNAMIC PROPERTIES OF VUL-
CANIZED CIS-1,4-POLYBUTADIENE. [1961]

2600 words, 7 refs.

Order from CTS(Chem) \$10.40

CTS(Chem)-249

subsequent copies \$1.75/ea.

Trans. of [la] Chimica e [1]'Industria (Italy) 1961,
v. 43, no. 9, p. 993-998.

DESCRIPTORS: *Butadienes, Dienes, *Polymers,
*Vulcanizates, Elastomers, Thermodynamics,
Stresses, Crystal structure.

- I. Crespi, G.
- II. Flisi, U.
- III. CTS(Chem)-249
- IV. Chemical Translating
Service, Palo Alto, Calif.

(Macromolecular Rubber, TT, v. 7, no. 7)

Office of Technical Services

Asta, Gino dall' and Bassi, Ivano Walter.

PREPARATION AND CRYSTALLINE STRUCTURE OF
ISOTACTIC POLYVINYL n-BUTYL ETHER. [1961]

3300 words, 17 refs.

Order from CTS(Chem) \$13.20

CTS(Chem)-252

subsequent copies \$ 2.50/ea.

Trans. of [la] Chimica e [l] Industria (Italy) 1961,
v. 43, no. 9, p. 999-1003.

DESCRIPTORS: *Ethers, *Vinyl radicals, *Butyl radi-
cals, Polymerization, *Polymers, Crystal structure,
Aluminum, Catalysts, Friedel-Crafts reactions,
Stereochemistry, Ethylenes.

(Chemistry--Organic, TT, v. 7, no. 6)

62-12301

- I. Asta, G. dall'
- II. Bassi, I. W.
- III. CTS(Chem)-252
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

R-892-N

Comportamento di esplosive all'azione di raggi
gamma Nota II, by Piantanida, Erminio & Peazzi,
Marcello

ITALIAN, per, La Chimica E L'industria, Vol XLIII,
No 12, Dec 1961, pp 1389-1393

*JPRS/Picatinny Arsenal
Dover, New Jersey

Sci
May 62

Crespi, G. and Bruzzone, M.
DEHYDROCHLORINATION AND VULCANIZATION
OF CHLORINATED ETHYLENE-PROPYLENE
COPOLYMERS. [1962] 9p. 4 refs.
Order from CTS(Chem) \$9.60 CTS(Chem)-256
subsequent copies \$1.00/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1961,
v. 43, no. 12, p. 1394-1397

DESCRIPTORS: *Ethylenes, *Propenes, *Polymers,
Copolymerization, Chlorination, Dehydrogenation,
Vulcanization, Vulcanizates, Physical properties.

(Chemistry--Organic, TT, v. 8, no. 4)

62-12958

I. Crespi, G.
II. Bruzzone, M.
III. CTS(Chem)-256
IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

62-17339

Natta, G., Pasquon, I., and Dente, M.
CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. I. AVERAGE DEGREES OF POLYMERIZATION FOR POLYMERS OBTAINED IN PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSFER WITH MONOMER. May 62, 5200 words, 10 refs.
Order from: CTS(Chem) \$20.80 CTS(Chem)-272
subsequent copies \$3.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 1, p. 1-9.

DESCRIPTORS: *Polymers, Polymerization, *Molecular weight, Distribution, *Statistical functions, Numerical analysis, Differential equations.

(Chemistry--Organic, TT, v. 8, no. 2)

- I. Natta, G.
- II. Pasquon, I.
- III. Dente, M.
- IV. Title: Average ...
- V. CTS(Chem)-272
- VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

62-18918

Natta, G., Pasquon, I., and Dente, M.
DISTRIBUTION CURVE OF POLYMERS OBTAINED IN
PROCESSES CHARACTERIZED BY TERMINATION
THROUGH CHAIN TRANSFER WITH THE MONOMER.
Note 2 on Calculation of the Distribution of the
Molecular Weights in the Slow Polymerizations.
[1962] 28p. (figs. omitted) 6 refs.
Order from SLA \$2.60

62-18918

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44
[no. 1] p. 10-17.

Another trans. is available from CTS (Chem) \$14.80
(subsequent copies \$2.50/ea.) as CTS (Chem)-273,
May 62, 3700 words.

DESCRIPTORS: Polymers, *Polymerization, *Molec-
ular weight, Distribution, *Statistical functions,
Numerical analysis, Partial differential equations.
(See also CTS(Chem)-272)
(Chemistry--Physical, TT, v. 9, no. 11)

- I. Natta, G.
- II. Pasquon, I.
- III. Dente, M.
- IV. Title: Calculation...

Office of Technical Services

62-17340

Natta, G., Pasquon, I., and Dente, M.
 CALCULATION OF MOLECULAR WEIGHT DISTRIBUTION IN SLOW POLYMERIZATIONS. II. DISTRIBUTION CURVES FOR POLYMERS OBTAINED IN PROCESSES CHARACTERIZED BY TERMINATION THROUGH CHAIN TRANSFER WITH MONOMER.
 May 62, 3700 words, 6 refs.
 Order from CTS (Chem) \$14.80 CTS (Chem)-273
 subsequent copies \$2.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
 v. 44, no. 1, p. 10-17.

DESCRIPTORS: *Polymers, *Polymerization, *Molecular weight, Distribution, *Statistical functions, Numerical analysis, Partial differential equations.
 (See also CTS(Chem)-272)

(Chemistry--Organic, TT, v. 8, no. 2)

- I. Natta, G.
- II. Pasquon, I.
- III. Dente, M.
- IV. Title: Distribution ...
- V. CTS(Chem)-273
- VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Pegoraro, M.
FRACTIONATION OF POLYPROPYLENE ACCORD-
ING TO MOLECULAR WEIGHT ONLY. May 62,
3300 words, 14 refs.
Order from CTS(Chem) \$13.20 CTS(Chem)-274
subsequent copies \$2.20/ea.

Trans. of [la] Chimica e [l']industria (Italy) 1962,
v. 44, no. 1, p. 18-23.

DESCRIPTORS: *Polymers, *Propenes, *Fractiona-
tion, *Molecular weight.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17341

- I. Pegoraro, M.
- II. CTS(Chem)-274
- III. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Moraglio, Giovanni.

ON THE DETERMINATION OF THE MOLECULAR
WEIGHT OF LINEAR POLY-1-BUTENE. May 62,
1000 words, 7 refs.

Order from CTS(Chem) \$4.00 CTS(Chem)-275
subsequent copies \$0.75/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1962,
v. 44, no. 1, p. 32-33.

DESCRIPTORS: *Polymers, *Butenes, *Molecular
weight, Determination.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17337

- I. Moraglio, G.
- II. CTS(Chem)-275
- III. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Marconi, W., Mazzel, A. and others.
STEREOSPECIFIC POLYMERIZATION OF ISOPRENE
WITH CALCIUM ZINC ALKYL AND TITANIUM
SALTS. May 62, 3500 words, 12 refs.
Order from CTS(Chem) \$14.00 CTS(Chem)-270
subsequent copies \$2.30/ea.

Trans. of [la] Chimica e [l']industria (Italy) 1962,
v. 44, no. 2, p. 121-126.

DESCRIPTORS: *Isoprene, Polymerization,
Catalysts, Catalysis, Complex compounds, Calcium
compounds, Zinc compounds, Alkyl radicals,
Titanium compounds, Chlorides.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17334

I. Title: Stereospecific
polymerization

I. Marconi, W.

II. Mazzel, A.

III. CTS(Chem)-270

IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Marconi, W., Santostasi, M. L., and Malde, M. de
SYNTHESIS OF BISINDENYL DERIVATIVES OF TI-
TANIUM AND THEIR COMPLEXES WITH ALUMI-
NUM ALKYLs. May 62, 4000 words, 24 refs.
Order from CTS(Chem) \$16.00 CTS(Chem)-278
subsequent copies \$2.70/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1962,
v. 44, no. 3, p. 229-234.

DESCRIPTORS: *Metallic compounds, *Indene, *Ti-
tanium compounds, Chlorides, Bromides, Iodides,
*Complex compounds, *Aluminum compounds, *Al-
kyl radicals, Synthesis, Chemical properties, Phys-
ical properties.

(Chemistry--Organic. TT, v. 8, no. 2)

62-17335

- I. Marconi, W.
- II. Santostasi, M. L.
- III. Malde, M. de
- IV. CTS(Chem)-278
- V. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Marconi, W., Santostasi, M. L., and Malde, M. de.
MONO- AND DIOLEFIN POLYMERIZATIONS CATALYZED BY INDENYL DERIVATIVES OF TITANIUM IN COMBINATION WITH METAL ALKYLs.

May 62, 3900 words, 9 refs.

Order from CTS(Chem) \$15.60

CTS(Chem)-279

subsequent copies \$2.60/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 3, p. 235-240.

DESCRIPTORS: *Ethylenes, *Polymerization, *Catalysts, Titanium compounds, Halides, Metallic compounds, Alkyl radicals, Indenes, Grignard reagents, Reagents, Catalysis, Butadienes, Isoprene, Polymers.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17336

- I. Marconi, W.
- II. Santostasi, M. L.
- III. Malde, M. de
- IV. CTS(Chem)-279
- V. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Danusso, Ferdinand and Polizzotti, Giulio.
ON THE APPLICATION OF DIFFERENTIAL
THERMAL ANALYSIS TO MACROMOLECULAR
MATERIALS: ISOTACTIC POLYSTYRENE AND
POLYETHYLENE. Mar 62, 3600 words, 10 refs
Order from CTS (Chem) \$14.40 CTS(Chem)-280
subsequent copies \$2.40/ea.

Trans. of [la] Chimica e [l] Industria (Italy) 1962,
v. 44, no. 3, p. 241-246.

DESCRIPTORS: *Polymers, *Ethylenes, *Styrenes,
*Calorimetry, Transformations, Crystallization,
Relaxation time.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17333

- I. Danusso, F.
- II. Polizzotti, G.
- III. CTS(Chem)-280
- IV. Chemical Translating
Service Palo Alto Calif

Office of Technical Services

R-983-N

Comportamento di Esplosivi all' Azione dei Raggi
Gamma. Nota III, by E. Piantanida M. Piazzi.

ITALIAN, per, La Chimica e l'Industria, Mar 1962,
pp 247-

*JPRS vor Picatinny Arsenal
Dover, New Jersey

8 Aug 62

Bucci, G. and Simonazzi, T.
DETERMINATION OF THE COMPOSITION OF
ETHYLENE-PROPYLENE COPOLYMER BY MEANS
OF SPECTROSCOPY IN THE NEAR INFRARED.

May 62, 375 words, 4 refs.

Order from CTS (Chem) \$1.50 CTS(Chem)-281
subsequent copies \$0.25/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, p. 262.

DESCRIPTORS: *Polymers, *Ethylenes, *Propenes,
Copolymerization, Spectrographic analysis, *Infrared
spectroscopy, Spectroscopy.

(Chemistry--Organic, TT, v. 8, no. 2)

62-17332

- I. Bucci, G.
- II. Simonazzi, T.
- III. CTS(Chem)-281
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Determination of the Molecular Weight Distribution
for cis-Tactic Polybutadiene by the Sedimentation
Rate Method, by G. Moraglio.

ITALIAN, per, Chimica e l'Industria, 1962,
Vol. XLIV, No 4, pp 352-359.

CTB(Chem)--282

Sci-Chem
Feb 63

222,454

Giannini, U. and Cesca, S.
VINYL CHLORIDE POLYMERS OBTAINED WITH
CATALYSTS PREPARED FROM ALUMINUM ALKYL
AND VANADIUM COMPOUNDS. Aug 62, 4100 words,
25 refs.
Order from CTS(Chem) \$16.40 CTS(Chem)2E8
subsequent copies \$2.70/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44 [no. 4] p. 171-178.

DESCRIPTORS: *Polymers, *Vinyl chlorides, Acetates,
Catalysts, Metalorganic compounds, *Aluminum com-
pounds, *Vanadium compounds, Alkyl radicals,
Chlorides.

(Chemistry--Organic, TT, v. 8, no. 7)

62-22483

- I. Giannini, U.
- II. Cesca, S.
- III. CTS(Chem)-288
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Glannini, U. and Gesca, S.
VINYL CHLORIDE POLYMERS OBTAINED WITH
CATALYSTS PREPARED FROM ALUMINUM ALKYL
AND VANADIUM COMPOUNDS, tr. by Fischer. [1962]
24p.

Order from K-H \$30.00

K-H-12245b

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 4, p. 371-378.

Other translations are available from CTS(Chem)
\$16.40 (subsequent copies \$2.70/ca) as CTS(Chem)-288,
Aug 62, 4100 words; and from SLA \$2.60 as 62-18673
[1962] [26]p.

DESCRIPTORS: *Polyvinyl chloride, *Polymers, Cat-
alysts, Aluminum compounds, Alkyl radicals, Vana-
dium compounds.

(Materials--Plastics, TT, v. 9, no 10)

62-12942

- I. Glannini, U.
- II. Gesca, S.
- III. K-H-12245-b
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

62-22387

Nebbia, L. and Pagani, B.
QUANTITATIVE DETERMINATION OF THE ACTIVE
ALUMINUM IN ALUMINUM ALKYL BY MEANS OF
TERTIARY BASES. Aug 62, 1350 words, 7 refs.
Order from CTS(Chem) \$5.40 CTS(Chem)-283
subsequent copies \$(0.90/ca.

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44
no. 4, p. 383-384.

DESCRIPTORS: *Quantitative analysis, Electrolytic
titration, *Metalorganic compounds, *Aluminum com-
pounds, Alkyl radicals, *Pyridines.

(Chemistry--Analytical, TT, v. 8, no. 7)

- I. Nebbia, L.
- II. Pagani, B.
- III. CTS(Chem)-283
- IV. Chemical Translating
Service, Palo Alto, Calif.

Capuccio, V., Coen, A. and others.
FIBERS FROM ISOTACTIC POLYPROPYLENE.

Aug 62, 5300 words, 22 refs.

Order from CTS(Chem) 521.20 CTS(Chem)-292
subsequent copies \$3.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 5, p. 463-473.

DESCRIPTORS: *Synthetic fibers, *Polymers,
*Propenes, Physical properties, Crystal structure,
X-ray diffraction analysis.

(Materials--Textiles, TT, v. 3, no. 7)

62-22352

- I. Capuccio, V.
- II. Coen, A.
- III. CTS(Chem)-292
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Cappuccio, V., Coen, A. and others.
ISOTACTIC POLYPROPYLENE FIBER. [1962] [32]p.
22 refs.

Order from SLA \$3.60

62-18672

Trans. of [la] Chimica e l'Industria (Italy) 1962, v. 44
[no. 5] p. 463-473.

Another trans. is available from CTS(Chem) \$21.20
(subsequent copies \$3.50/ea) as CTS(Chem)-292,
Aug 62, 5300 words.

DESCRIPTORS: *Synthetic fibers, Polyethylene plastics,
*Propenes, Molecular isomerism, Extrusion, Crystal
structure, Physical properties, X-ray diffraction
analysis.

The behavior of isotactic polypropylene in the various
stages of its transformation into fiber is discussed in
the light of the rheological properties of the molten
(Materials--Textiles, TT, v. 9, no. 12) (over)

62-18672

I. Cappuccio, V.
II. Coen, A.

Office of Technical Services

Danusso, Ferdinando and Sianesi, Dario.
ON THE MECHANISM OF STEREOSPECIFIC POLY-
MERIZATION AND COPOLYMERIZATION OF ARO-
MATIC VINYL MONOMERS. I. EXPERIMENTAL
RESULTS. Aug 62, 6500 words, 29 refs.
Order from CTS(Chem) \$26.00 CTS(Chem)-293
subsequent copies \$4.25/ea. (190) CTS 62-26634

Trans. of [la] Chimica e [1'] Industria (Italy) 1962,
v. 44, no. 5, p. 474-482.

DESCRIPTORS: *Polymerization, *Vinyl radicals,
*Styrenes, Stereochemistry, Reaction kinetics,
Catalysts, Titanium compounds, Chlorides, Aluminum
compounds, Hydrocarbons, Copolymerization.

(Chemistry--Organic, TT, v. 8, no. 7)

62-22381

63-26634

- I. Danusso, F.
- II. Sianesi, D.
- III. CTS(Chem)-293
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Clampelli, F., Bucci, G. and others.
ANALYSIS OF ETHYLENE-PROPYLENE COPOLY-
MERS BY MEANS OF INFRARED SPECTROSCOPY.
Aug 62, 2500 words, 8 refs.
Order from CTS(Chem) \$9.20 CTS(Chem)-294
subsequent copies \$1.50/ea

Trans. of [la] Chimica e [l']Industria (Italy) 1962.
v. 44, no. 3, p. 489-493.

DESCRIPTORS: *Polymers, *Ethylenes, *Propenes.
Chemical analysis. *Infrared spectroscopy.

(Chemistry--Analytical, TT, v. 8, no. 7)

62-22380

- I. Clampelli, F.
- II. Bucci, G.
- III. CTS(Chem)-294
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

On the Mechanism of Sterospecific Polymerization
and H₂O₂ Copolymerization of Aromatic Vinyl
Monomers. II. Postulation of the Kinetic and
Chemical Mechanism, Aug 1962.

ITALIAN, per, Chimica e l'Industria, 1962,
Vol XLIV, No 6, pp 611-620.

CTB(Chem)-297

Sci.-Chem
Feb 63

222,455

Natta, G., Pasquon, I. and others.

KINETICS OF PROPYLENE POLYMERIZATION WITH
HETEROGENEOUS CATALYSTS OF HIGH STEREO-
SPECIFICITY. NOTE VII. STUDY OF THE POLYMER
CHAIN INITIATION STEPS, 15p. 14refs MTWL-1145
Order from OTS or ETC \$0.80 63-26633

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 6, p. 621-626.

Another trans. is available from CTS (Chem) \$12.00,
subsequent copies \$2.00 ea. as CTS (Chem)-298,
3000 words.

DESCRIPTORS: *Propenes, *Polymerization, Mechan-
ics, Chemical reactions, Catalysts, *Polyethylene
plastics.

(Materials--Plastics, TT, v. 10, no. 10)

63-26633

- I. Natta, G.
- II. Pasquon, I.
- III. MTWL-1145
- IV. Stichting voor Moettijk
Toegankelijke Wetens-
chappelijke Literatuur
(Netherlands).
- V. Title: Study ...

Office of Technical Services

Crespi, G., Filisi, U. and Arcozzi, A.
STUDIES ON THE RATE OF CRYSTALLIZATION OF
CIS-1, 4-POLYBUTADIENE, 11p 5 refs MTWL-1144.
Order from OTS or ETC \$0.80 63-26632

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 6, p. 627-630.
Another trans. is available from CTS (Chem) \$8.20,
subsequent copies \$1.35 ea. as CTS (Chem)-299,
2050 words

DESCRIPTORS: *Butadienes, *Polymers, Crystalliza-
tion, Experimental data, Crystal growth.

JPRS / Red done Annual

(Materials--Elastomers, TT, v. 10, no. 10)

63-26632

- I. Crespi, G.
- II. Filisi, U.
- III. Arcozzi, A.
- IV. MTWL-1144
- V. Stichting voor Moelijk
Toegankelijke Wetens-
chappelijke Literatuur
(Netherlands)

Office of Technical Services

62-18817

Maffezzoni, Umberto and Alberi, Enzo.
DIMETHYL TEREPHTHALATE FROM p-XYLENE BY
SIMULTANEOUS OXIDATION AND ESTERIFICATION
(Dimetiltereftalato da p-Xilene per Ossidazione ed
Esterificazione Contemporanea). 23 Sep 62 [20]p.
(foreign text included) 11 refs.
Order from SLA \$1.60

I. Maffezzoni, U.
II. Alberi, E.

62-18317

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 6, p. 631-635.

DESCRIPTORS: *Dacron, *Polyethylene plastics,
*Phthalates, Methyl radicals, Synthesis, *Xylenes,
Oxidation, Esterification, Catalysts, Methanols.

At the present time dimethyl terephthalate is produced
on an industrial scale in two separate stages of
oxidation and esterification. A new process permits
this ester to be obtained in one single step by means of
(Materials--Textiles, TT, v. 9, no. 11) (over)

Office of Technical Services

Design of Tubular Catalytic Fixed Bed Reactors,
by Sergio Carra, Maria Paola Stabilini, 10 pp.

~~ENGLISH~~, per, Chim Ind, ^{VOL XLIV} ~~no 14~~, 1962, pp 851-855.
ITALIAN 9264228

AEC-Tr-5716

Sci - Nucl Sci

Jul 63

238,200

Calderazzo, Fausto and Ercoli, Raffaele.
RESEARCHES ON THE SYNTHESIS OF VANADIUM
HEXACARBONYL AND ON SALTS OF HEXACAR-
BONYL-VANADATE ANION. Jan 63, 4500 words,
11 refs.

Order from CTS(Chem) \$13.50 CTS(Chem)-309
subsequent copies \$2.25/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44,
no. 9, p. 990-996.

DESCRIPTORS: *Metalorganic compounds, *Vanadium
compounds, *Carbonyl radicals, *Vanadates, Salts,
Synthesis, Magnesium compounds, Sodium compounds,
Pyridines.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12655

- I. Calderazzo, F.
- II. Ercoli, R.
- III. CTS(Chem)-309
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Calderazzo, Fausto and Ercoli, Raffaele.
RESEARCH ON THE SYNTHESIS OF VANADIUM
HEXACARBONYL AND ITS SALTS OF THE HEXA-
CARBONYL VANADATE ANION. [1962] 23p.
Order from K-H \$28.75 K-H 12427

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44,
no. 9, p. 990-995.

Another trans. is available from CTS(Chem) \$13.50
subsequent copies \$2.25/ea. as CTS(Chem)-309,
Jan 63, 4500 words.

DESCRIPTORS: Synthesis (Chemistry), *Vanadium
compounds, *Carbonyl radicals, Salts, Ions.

(Engineering--Chemical, TT, v. 9, no. 11)

63-12943

- I. Calderazzo, F.
- II. Ercoli, R.
- III. K-H-12427
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Valvassori, A. and Sartori, G.
TERPOLYMERIZATION OF ETHYLENE-PROPYLENE-
1-BUTENE. Jan 63, 2200 words, 18 refs.
Order from CTS(Chem) \$8.80 CTS(Chem)-311
subsequent copies \$1.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44,
no. 10, p. 1091-1094.

DESCRIPTORS: *Ethylenes, *Propenes, *Butenes,
Polymerization, Reaction kinetics, Elasticity,
Chemical analysis.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12656

- i. Valvassori, A.
- ii. Sartori, G.
- III. CTS(Chem)-311
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Valvassori, A., Sartori, G., and Ciampelli, F.
HOMOPOLYMERIZATION OF 1,5-HEXADIENE AND
ITS COPOLYMERIZATION WITH ETHYLENE. Jan 63,
3700 words, 23 refs.

Order from CTS(Chem) \$14.80
subsequent copies \$2.50/ea.

CTS(Chem)-312

Trans. of [la] Chimica e [l']Industria (Italy) 1962, v. 44
[no. 10] p. 1095-1100.

DESCRIPTORS: *Dienes, Polymerization, *Ethylenes,
Copolymerization, Chemical analysis, Catalysts.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12657

- I. Valvassori, A.
- II. Sartori, G.
- III. Ciampelli, F.
- IV. CTS(Chem)-312
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Zannetti, R., Manaresi, P., and Baldi, L.
THE ABSORPTION OF BETA RADIATION BY POLY-
MERS AND THE DETERMINATION OF THE TEM-
PERATURE OF PHASE AND ISOPHASIC TRANSITIONS
Jan 63, 3900 words, 5 refs.
Order from CTS(Chem) \$15.60 CTS(Chem)-313
subsequent copies \$2.60/ea.

Trans. of [Is] Chimica e [I']ndustria (Italy) 1962, v. 44,
no. 10, p. 1114-1120.

DESCRIPTORS: *Polymers, *Beta particles, Absorp-
tion, *Phase transitions, Temperature, Determination,
Ethylenes, Phalates, Styrenes, Butadienes, Butenes,
Propenes, Inorganic substances.

(Chemistry--Physical, TT, v. 9, no. 6)

63-12658

- I. Zannetti, R.
- II. Manaresi, P.
- III. Baldi, L.
- IV. CTS(Chem)-313
- V. Chemical Translating
Service, Palo Alto,
Calif.

*ADD
Physical & Industrial
Chemistry*

Office of Technical Services

Ceselli, C. A., Garlanda, T. and others.
cis-trans ISOMERIZATION OF POLYBUTADIENE.
Jan 63, 3200 words, 12 refs.

Order from CTS(Chem) \$12.80 CTS(Chem)-317
subsequent copies \$2.15/ea.

Trans. of [la] Chimica e [1']Industria (Italy) 1962,
v. 44, no. II, p. 1203-1211.

DESCRIPTORS: Polymers, *Elastomers, *Butadienes,
Vulcanization, Molecular isomerism, Spectrum
(Infrared), Sulfur, Elasticity.

(Materials--Elastomers, TT, v. 9, no. 6)

63-12660

I. Ceselli, C. A.

II. Garlanda, T.

III. CTS(Chem)-317

IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

63-12661

Natta, G., Asta, G. dall' and Mazzanti, G.
CRYSTALLINE ALTERNATING ETHYLENE-CYCLO-
HEPTENE COPOLYMERS. Jan 63, 3000 words, 8 refs.
Order from CTS(Chem) \$12.00 CTS(Chem)-318
subsequent copies \$2.00/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1962,
v. 44, no. 11, p. 1212-1216.

DESCRIPTORS: Polymers, *Ethylenes, *Cycloheptenes,
Copolymerization, Catalysts, Vanadium catalysts,
Aluminum catalysts, Crystal structure, Chemical
bonds, Heptenes.

(Chemistry--Organic, IT, v. 9, no. 6)

- I. Natta, G.
- II. Asta, G. dall'
- III. Mazzanti, G.
- IV. CTS(Chem)-318
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

63-17293

Valderazzo, F. and Calvi, P. L.
THE VANADIUM (0) π -TROPYLIUM- π -CYCLO-
HEPTATRIENE CATION $[V(C_7H_7)(C_7H_8)]^+$. [1963]
12p.

Order from K-H \$12.00

K-H 12589

Trans. of la Chimica e l'Industria (Italy) 1962, v. 44
[no. 11] p. 1217-1219.

Another trans. is available from CTS(Chem) \$9.60
subsequent copies \$1.60/ea. as CTS(Chem)-319, Jan 63,
2400 words.

DESCRIPTORS: *Metalorganic compounds, Complex
compounds, *Vanadium compounds, *Cycloheptatriene
derivatives, Synthesis (Chemistry), Ions.

(Chemistry--Organic, TT, v. 10, no. 1)

- I. Valderazzo, F.
- II. Calvi, P. L.
- III. K-H-12589
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Calderazzo, F[austo] and Calvi, P. L.
THE VANADIUM (O)- π -TROPYLIUM- π -CYCLO-
HEPTATRIENE CATION [V(C₇H₈)] . Jan 63,
2400 words, 18 refs.
Order from CTS(Chem) \$9.60 CTS(Chem)-319
subsequent copies \$1.60/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 7, p. 1217-1220.

DESCRIPTORS: *Metalorganic compounds, Complex
compounds, *Vanadium compounds, *Cycloheptatriene
derivatives, Synthesis.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12662

- I. Calderazzo, F.
- II. Calvi, P. L.
- III. CTS(Chem)-319
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

63-12663

Chini, P., Baradel, A., and others.

NOTE ON SOME METALORGANIC ALUMINUM COMPOUNDS DERIVED FROM ACETYLENE AND ITS HOMOLOGS. Jan 63, 5600 words, 16 refs.

Order from CTS(Chem) \$22.40 CTS(Chem)-320
subsequent copies \$3.70/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 11, p. 1220-1227.

DESCRIPTORS: *Metalorganic compounds, *Aluminum
compounds, *Acetylenes, Acetylene derivatives,
Syntheses.

(Chemistry--Organic, TT, v. 9, no. 6)

- I. Chini, P.
- II. Baradel, A.
- III. CTS(Chem)-320
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Baccaredda, M. and Butta, E.
DYNAMIC MECHANICAL PROPERTIES AND ISO-
PHASE TRANSITIONS OF LINEAR POLYETHYLENES
AND OF SOME POLY-ALPHA-OLEFINS. Jan 63,
5700 words, 30 refs.
Order from CTS(Chem) \$22.80 CTS(Chem)-321
subsequent copies \$3.80

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 11, p. 1228-1236.

DESCRIPTORS: Polymers, *Ethylenes, Propenes,
Butenes, Pentenes, Mechanical properties, Phase
transitions.

(Chemistry--Organic, TT, v. 9, no. 6)

63-12664

- I. Baccaredda, M.
- II. Butta, E.
- III. CTS(Chem)-321
- IV. Chemical Translating
Service, Palo Alto, Calif.

Office of Technical Services

Ercoli, Raffaele, Santambrogio, Elio, and Casagrande
Giulia Tettamanti.

SYNTHESIS AND PROPERTIES OF TRICOBALT
ENNEACARBONYLMETHANE AND OF DERIVATIVES
REPRESENTED BY $\text{Co}_3(\text{CO})_9\text{CX}$. [1963] 14p. 9 refs.
Order from CTS(Chem) \$16.00 CTS(Chem)-325
subsequent copies \$2.60/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 12, p. 1344-1349.

DESCRIPTORS: *Complex compounds, *Metalorganic
compounds, *Cobalt compounds, *Carbonyl radicals,
Methyl radicals, Halogen compounds, Esters, Syn-
thesis, Chemical properties

(Chemistry--Organic, TT, v. 10, no. 2)

63-17429

- I. Ercoli, R.
- II. Santambrogio, E.
- III. Casagrande, G. T.
- IV. CTS(Chem)-325
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Baldi, L. and Zannetti, R.
SULFUR SOLUBILITY AND DIFFUSIVITY IN
ETHYLENE-PROPYLENE AND ETHYLENE-BUTENE-1
COPOLYMERS. [1963] 1500 words, 6 refs.
Order from CTS(Chem) \$6.00 CTS(Chem)-322
subsequent copies \$1.00/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 12, p. 1350-1353.

DESCRIPTORS: *Synthetic rubber, *Vulcanization,
*Sulfur, Solubility, Diffusion, *Polyethylene plastics,
Ethylenes, Propenes, Butenes, Polymers

(Materials--Elastomers, TT, v. 10, no. 2)

63-17427

- I. Baldi, L.
- II. Zannetti, R.
- III. CTS(Chem)-322
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Rossi, C. and Bianchi, U.
THERMODYNAMIC PROPERTIES OF HIGH POLY-
MERS: INTERNAL PRESSURE. Paper presented at the
International Congress on Plastics (no. 14) Turin,
26-29 Sep 62. [1963] 3250 words, 16 refs.
Order from CTS(Chem) \$13.00 CTS(Chem)-323
subsequent copies \$2.25/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 12, p. 1362-1366.

DESCRIPTORS: *Polymers, Plastics, Physical prop-
erties, *Thermodynamics, Pressure, Phase transitions,
Melting, Elasticity

(Materials--Plastics, TT, v. 10, no. 2)

63-17435

- I. Rossi, C.
- II. Bianchi, U.
- III. Title: Internal...
- IV. Title: International...
- V. CTS(Chem)-323
- VI. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Baccaredda, Mario.
CRYSTALLINITY OF HIGH POLYMERS AND THEIR
DYNAMIC MECHANICAL PROPERTIES. Lecture given
at European Conference on Plastics and Rubber (no. 1)
Paris, May 62. [1963] 4800 words.
Order from CTS(Chem) \$19.20 CTS(Chem)-324
subsequent copies \$3.20/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1962,
v. 44, no. 12, p. 1383-1389.

DESCRIPTORS: *Polymers, *Crystal structure,
Morphology, Mechanical properties, Dynamics,
*Sound transmission, Velocity, Damping, Phase transi-
tion, *Plastics, *Fibers, *Synthetic rubber

(Chemistry--Physical, TT, v. 10, no. 2)

63-17426

- I. Baccaredda, M.
- II. CTS(Chem)-324
- III. Chemical Translating
Service, Palo Alto,
Calif.
- IV. Title: European...

HTS-1435 I 9

Office of Technical Services

Phase Changes in Linear Polymer Systems (PVC), by
M. Mammi.
EUROPEAN, per, Chimica e l'Industria, Vol 44,
1962, pp 1392-1394.
NTC-71-16233-11E

Jan 72

ASTARITA, G. and others. Diffusion phenomena in a liq
flowing along an irregular solid surface.
Chimica Ind. 45(2):142-50 (1962) (CRL/D. 841)

Bubble Motion in Fluidized Solid/Gas Systems,
by L. Massimilla, P. Calla, et al, 12 pp.
ITALIAN, per, La Chimica et l'Industria, Vol XLV,
1963, pp 23-29.
AERE-Harwell-Tr-997

Sci-Chem
Jun 64

260,948

Gatta, G., Testa, F., and Talamini, G.
EFFECT OF SOME IMPURITIES ON THE POLYMERI-
ZATION OF VINYL CHLORIDE. [1964] 14p
Order from K-H \$8.40 K-H-12952

Trans. of la Chimica e l'Industria (Italy) 1963, v. 45,
no. 2, p. 203-208.

(Chemistry--Organic, TT, v. 12, no. 1)

TT-64-12846

- I. Gatta, G.
- II. Testa, F.
- III. Talamini, G.
- IV. K-H-12952
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

63-17434

Natta, G. and Corradini, P.

GENERAL ASPECTS OF THE CRYSTALLINE STRUCTURE OF STEREOREGULAR POLYMERS. Communication presented at the National Congress of Chemistry (no. 9) held jointly with the Swiss Chemical Society, Naples, 27 May-9 June 62. [1963] 9000 words, 53 refs. Order from CTS(Chem) \$36.00 CTS(Chem)-334 subsequent copies \$6.00/ea.

Trans. of [La] Chimica e [l']Industria (Italy) 1963, v. 45, no. 3, p. 299-314.

DESCRIPTORS: *Polymers, *Stereochemistry, *Crystal structure, Molecular isomerism, Molecular structure, Physical properties, *Plastics, Rubber, *Synthetic rubber, *Fibers

(Chemistry--Physical, TT, v. 10, no. 2)

- I. Title: Stereoregular polymers
- I. Natta, G.
- II. Corradini, P.
- III. Title: National...
- IV. Title: Swiss...
- V. CTS(Chem)-334
- VI. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Chiusoli, Gian Paolo and Cometti, Giuseppe.
COUPLING OF ALLYLIC DERIVATIVES BY NICKEL
CARBONYL. [1963] 2600 words, 17 refs.
Order from CTS(Chem) \$10.40 CTS(Chem)-336
subsequent copies \$1.75/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1963,
v. 45 [no. 4] p. 401-404.

DESCRIPTORS: *Haloalkanes, Allyl radicals, *Bu-
tanes, *Propenes, Polymerization, Catalysts, Complex
compounds, *Nickel catalysts, *Carbonyl radicals

(Chemistry--Organic, TT, v. 10, no. 2)

63-17428

- I. Chiusoli, G. P.
- II. Cometti, G.
- III. CTS(Chem)-336
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Volpicelli, G. and Massimilla, L.
SECONDARY EFFECTS OF THE SOLUTE CONCENTRATION IN LIQUID-LIQUID EXTRACTION. [1964]
19p
Order from ATS \$23.85 ATS-170741

Trans. of [la] Chim[ica] e [l']nd[ustria] (Italy) 1963,
v. 45, no. 4, p. 405-416.

(Engineering--Chemical, TT, v. 11, no. 12)

TT-64-12683

- I. Volpicelli, G.
- II. Massimilla, L.
- III. ATS-170741
- IV. Associated Technical Services, Inc.,
East Orange, N. J.

Office of Technical Services

63-17433

Minisci, Francesco and Galli, Remo.
CARBON FREE RADICALS: OXIDATION BY LIGAND
TRANSFER OR ELECTRON TRANSFER AND AFFIN-
ITY TOWARD CONJUGATED OLEFINS. [1963]

950 words, 6 refs.

Order from CTS(Chem) \$3.80

CTS(Chem)-335

subsequent copies \$0.60/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1963,
v. 45, no. 4, p. 448-450.

DESCRIPTORS: *Free radicals, *Carbon, Oxidation,
Electrons, *Ethylenes, Chemical reactions

(Chemistry--Organic, IT, v. 10, no. 2)

- I. Minisci, F.
- II. Galli, R.
- III. CTS(Chem)-335
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Marconi, W., Araldi, M. and others.
SOME ASPECTS OF THE STEREOSPECIFIC POLY-
MERIZATION OF BUTADIENE WITH CATALYSTS
BASED ON TITANIUM HALIDES. [1963] [14]p. 17 refs.
Order from CTS(Chem) \$13.20 CTS(Chem)-339
subsequent copies \$2.20/ea.

Trans. of [la] Chimica e l'Industria (Italy) 1963,
v. 45, no. 5, p. 522-528.

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Butadienes, Polymerization, Metalorganic compounds,
*Ziegler catalysts, *Titanium compounds, Halides,
*Aluminum compounds, Ethyl radicals, Chlorides,
Iodides.

(Materials--Elastomers, IT, v. 10, no. 8)

63-17994

- I. Title: CIS-1, 4-Polybuta-
diene
- I. Marconi, W.
- P. Araldi, M.
- III. CTS(Chem)-339
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Mazzei, A., Cucinella, S. and others.
POLYMERIZATION OF BUTADIENE BY MEANS OF
TITANIUM AMINES AND ALUMINUM DERIVATIVES.
[1963] [11]p. 13 refs.

Order from CTS(Chem) \$10.00 CTS(Chem)-340
subsequent copies \$1.50/ea.

Trans. of [la] Chimica e [l'] Industria (Italy) 1963, v. 45,
no. 5, p. 528-532.

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Butadienes, Polymerization, Metalorganic compounds,
*Ziegler catalysts, *Titanium compounds, Amines,
*Aluminum compounds, Alkyl radicals, Hydrides.

(Materials--Elastomers, IT, v. 10, no. 8)

63-17993

- I. Mazzei, A.
- II. Cucinella, S.
- III. CTS(Chem)-340
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Natta, G., Crespi, G. and others.
NEW TERPOLYMERS BASED ON ETHYLENE AND
PROPYLENE. [1963] 15p. 7 refs.
Order from CTS(Chem) \$13.20 CTS(Chem)-341
subsequent copies \$2.20/ea.

Trans. of [la] Chimica e [1] Industria (Italy) 1963,
v. 45, no. 6, p. 651-656.

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Ethylenes, *Propenes, *Dienes, Copolymerization,
Ziegler catalysts, Physical properties, *Vulcanization,
Fillers, Oils, Aging.

(Materials--Elastomers, TT, v. 10, no. 9)

63-17992

1. Title: 1,5-Cyclo-octadiene
- I. Natta, G.
- II. Crespi, G.
- III. CTS(Chem)-341
- IV. Chemical Translating Service, Palo Alto, Calif.

Office of Technical Services

Blanchi, Umberto and Bianchi, Estella.
ON A TRANSITION IN CIS-1, 4-POLYBUTADIENE.
[1963] 7p. 7 refs.
Order from CTS(Chem) \$6.00 CTS(Chem)-342
subsequent copies \$1.00/ea.

Trans. of [la] Chimica e l'Industria (Italy) 1963,
v. 45, no. 6, p. 657-659.

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Butadienes, Physical properties, Transformations,
Pressure, Rolling mills, Adhesion.

(Materials--Elastomers, TT, v. 10, no. 8)

63-17995

1. Title: CIS-1, 4-Polybutadiene
- I. Bianchi, U.
- II. Bianchi, E.
- III. CTS(Chem)-342
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

A New Industrial Process for the Synthesis of
Isoprene, by Marcello De Malde, 20pp
ITALIAN, per, la Chim Ind, Vol 45, 1963, No 6,
pp 665-673
SIA TT-64-18774

Sci - Eng
May 67

327,399

Beati, E., Toffano, S., and Severini, F.
A STUDY OF THE GRAFTING REACTION OF
VINYL MONOMERS ON PEROXIDIZED POLY- α -
OLEFINS. [1963] [13]p. 8 refs.
Order from CTS(Chem) \$14.40 CTS(Chem)-343
subsequent copies \$2.40/ea.

Trans. of [la] Chimica e l'Industria (Italy) 1963,
v. 45, no. 6, p. 690-695.

DESCRIPTORS: *Polyethylene plastics, *Peroxides,
*Graft polymers, *Vinyl radicals, *Pyridines,
Decomposition, Reaction kinetics.

(Materials--Plastics, TT, v. 10, no. 8)

63-17996

- I. Beati, E.
- II. Toffano, S.
- III. Severini, F.
- IV. CTS(Chem)-343
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Giuffre, L. and Cassani, F.
CONTRIBUTION TO THE ANALYSIS OF DOUBLE
BONDS IN SYNTHETIC ELASTOMERS OF LOW
UNSATURATION. [Nov 63] 3800 words 19refs
Order from CTS(Chem) \$15.20 CTS(Chem)-347
subsequent copies \$2.50/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1963,
v. 45, no. 7, p. 806-812. (Abstract available)

DESCRIPTORS: *Elastomers, *Chemical bonds,
*Spectroscopy, Oxides, Colorimetry, Iodine, Ozone,

The paper deals with a critical study and the develop-
ment of two spectrophotometric methods for the de-
termination of double bonds in synthetic elastomers of
low unsaturation. Moreover, it describes the analytical
conditions of the halogenation method proposed by
Gallo, Wiese, and Nelson and gives a correction factor
useful in the determination of cyclooctadiene monomer.
(Materials--Elastomers, TT, v. 11, no. 5) (over)

TT-64-12042

- I. Title: Ozonisation
- I. Giuffre, L.
- II. Cassani, F.
- III. CTS(Chem)-347
- IV. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

TT-64-12041

Dubini, Mario, Longlave, Carlo, and Castelli,
Renato.

CHAIN TRANSFER TO RADIOACTIVE ETHYLENE
IN THE POLYMERIZATION OF BUTADIENE WITH
COBALT CATALYSTS. [Nov 63] 1800 words 10 refs
Order from CTS(Chem) \$7.20 CTS(Chem)-349
subsequent copies \$1.20/ea.

Trans. of [la] Chimica e [l']Industria (Italy) 1963,
v. 45, no. 8, p. 925-926. (Abstract available)

DESCRIPTORS: *Butadienes, *Polymerization, Metal-
organic compounds, *Ziegler catalysts, Aluminum
compounds, Ethyl radicals, Chlorides, *Cobalt cata-
lysts, *Labeled substances, *Ethylenes, Vinyl radicals,
*Radiochemistry, Elastomers.

It was ascertained that ethylene is introduced into the
polymer molecule when butadiene is polymerized with
(Chemistry--Physical, TT, v. 11, no. 4) (over)

- I. Dubini, M.
- II. Longlave, C.
- III. Castelli, R.
- IV. CTS(Chem)-349
- V. Chemical Translating
Service, Palo Alto,
Calif.

Office of Technical Services

Portolani, Augusto and Glandinoto, Gian Vittorio.
PROPERTIES AND APPLICATIONS OF ETHYLENE-
PROPYLENE COPOLYMER. [Nov 63] 5000 words 28 refs
Order from CTS(Chem) \$20.00 CTS(Chem)-350

Trans of [la] Chimica e [l] Industria (Italy) 1963,
v. 45, no. 8, p. 927-936. (Abstract available)

DESCRIPTORS: *Elastomers, *Polyethylene plastics,
*Ethylenes, *Propenes, Copolymerization, Ziegler
catalysts, *Vulcanization, Peroxides, Physical
properties, Material forming, Ozone, Aging
(Materials), Degradation.

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propylene copolymer and its vulcanization with
organic peroxides are briefly reviewed. Workability,
compounding with common reinforcing agents and
fillers, and compatibility with other elastomers are
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- II. Glandinoto, G. V.
- III. CTS(Chem)-350
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NTC-71-11553-07A

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By: U. Colombo et al

Source: La Chimica e L'Industria Vol. 46, No4

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Order from SLA: \$2.60 as TT-65-13406

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M. Dente, R. Poppi.
FRENCH, per, La Chimica e l'Industria,
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SOLUTIONS. 20p, 6refs.
Order from SLA: \$1.60 as TT-65-13800

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Jaboulay, E. E.
DETERMINATION OF SULFUR BY GASEOUS
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[1969] 8p. 6 refs.
Order from SLA \$1.10

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v. 53, p. 48-50.

DESCRIPTORS: *Iron alloys, *Castings, *Iron,
*Steel, *Sulfur, Chemical analysis, Gaseous diffusion
separation, Thermal diffusion separation.

Sulfur in steels and cast irons exists either as FeS or
Fe₂S₃. Sulfur present as FeS is liberated by dilute or
concentrated HCl, that as Fe₂S₃ is only partly liberated,
according to the equation



(Metallurgy--Ferrous Metals, TT. v. 10, no. 9) (over)

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Trans. of Chimie Analytique (France) 1952, v. 34,
p. 189-192. (Abstract available)

DESCRIPTORS: *Hexachlorocyclohexanes, Infrared
spectroscopy. *Insecticides, Impurities, Benzenes.

The influence of various by-products formed during the
chlorination of benzene on the quantitative determination
of gamma hexachlorocyclohexane by infrared spectroscopy
was determined. After having examined the spectra of
alpha and beta heptachlorocyclohexane, alpha and
beta octachlorocyclohexane, monochlorobenzene and
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DESCRIPTORS: Alcohols, Aldehydes, Ketones, Organic acids, Acids, Amines, *Organic compounds, Identification, Molecular weight, Determination, Pyrazolones.

(Chemistry--Organic, TT, v. 7, no. 3)

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DESCRIPTORS: *Water, *Test methods, Dehydration,
Furnaces, Chemical bonds, Thermodynamics,
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For abstract see Technical Translations: 2: 181, 1959,

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